

## INTELLOFAX 14

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## CENTRAL INTELLIGENCE AGENCY

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SECURITY INFORMATION

25X1

ON REPORT

REPORT

CD NO.

COUNTRY Poland

DO NOT CIRCULATE

DATE DISTR.

21 April 1952

SUBJECT

1. Telecommunications: Radar

NO. OF PAGES

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2. Electro-Technical Institute

NO. OF ENCLS.

DATE OF INFO.

PLACE ACQUIRED

25X+

SUPPLEMENT TO REPORT NO.

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## THIS IS UNEVALUATED INFORMATION

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- Radar research and construction at Gdansk Polytechnical School is directed by Engineer (fnu) Lenkowski, Director of the Gdansk Polytechnic Institute of Research. The work is coordinated with that of the Institute of Telecommunications and the Warsaw Polytechnical School.\* It presently concerns the construction of a radar apparatus of Polish design which will have the following specifications:
  - Horizontal angle of aerial radiation: beam approximately 10 in breadth.
  - Beam width (vertical angle): approximately 100.
  - Wave length: 3 cm.
  - Frequency of pulsation: approximately 0.2 seconds.
  - Frequency of repetitions: approximately 1000 c/sec.
  - Maximum power: 20 to 30 kw.
  - Number of revolutions of aerial: 20 to 30 revolutions per minute.
  - h. Amplification of receiver: approximately 120 decibels.
- 2. The Main Electro-Technical Institute (Glowny Instytut Elektrotechniki) at Warsaw has developed detailed technical data\*\* on the following machinery, production of which is soon to be initiated by the Fabryka Wielkich Maszyn Elektrycznych (Heavy Electrical Machinery Factory) at Wroclaw:
  - Turbo-generator of 2.5 mva power.

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- b. Four-gear engine of 1,600 kw.\*\*\*
- c. Twenty-four gear engine of 1,550 kw.\*\*\*

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25X1	* Comment: It is believed this Institute of Telecommunications is	
25X1	identical with the PIT	
25X1	and we now believe the PIT means Panstwowe	
23/(1	Instytut Telekomunikacyjni.	
25X1		_
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25X1	Comment: These are presumably internal combustion engines hooked	
	up to the above or some other power generating machine.	

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